[A] Bryan et al.

L7 ANSWER 4 OF 4 CAPLUS COPYRIGHT 2006 ACS on STN
ACCESSION NUMBER: 2002:793832 CAPLUS <<LOGINID::20061113>>
DOCUMENT NUMBER: 137:310824
TITLE: Preparation of quinoline inhibitors of hYAK1 and hYAK3 kinases
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PATENT ASSIGNEE(S): Smithkline Beecham Corporation, USA
SOURCE: PCT Int. Appl., 53 pp.
CODEN: PIXXD2
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2002081728	A2	20021017	WO 2002-US10657	20020404
WO 2002081728	A3	20021121		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZM, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2002256085	A1	20021021	AU 2002-256085	20020404
EP 1372654	A2	20040102	EP 2002-725526	20020404
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
JP 2004526756	T2	20040902	JP 2002-580090	20020404
US 2005043352	A1	20050224	US 2003-474084	20031006
US 7087758	B2	20060808		
PRIORITY APPLN. INFO.:			US 2001-282229P P	20010406
			WO 2002-US10657 W	20020404

OTHER SOURCE(S): MARPAT 137:310824
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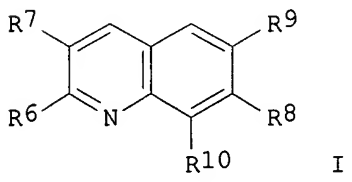

I

AB The title compds. [I; R6 = NHalkyl, NHcycloalkyl, NHaryl, etc.; R7 = CO2H, CONH2, CHNOH, etc.; R8 = H, OH, alkyl, etc.; R9 = H, alkyl, cycloalkyl, etc.; R8 and R9 can form a 5-7 membered ring comprising heteroatoms selected from O, N, and S; R10 = H, halo], useful in the treatment of diseases in which an excessive amount of either hYAK1 and hYAK3 kinases is a factor, were prepared Thus, reacting 2-chloro-7-methoxyquinoline-3-

carboxylic acid with 3-chloroaniline in xylene afforded I [R6 = 3-ClC6H4NH; R7 = CO2H; R8 = OMe; R9, R10 = H]. The compds. I showed IC50 of 0.01-10 μM, and 0.03-10 μM against hYAK1 and hYAK3, resp.

IT 470702-06-8P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of quinoline inhibitors of hYAK1 and hYAK3 kinases for treating anemia)

RN 470702-06-8 CAPLUS

CN 3-Quinolinecarboxylic acid, 7-methoxy-2-[[4-(4-morpholinyl)phenyl]amino]- (9CI) (CA INDEX NAME)